

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
TIME: 08:35:18

INPUT SET: S36649.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

(i) APPLICANTS: C. Morrow et al.

(ii) TITLE OF INVENTION: ENCAPSIDATED RECOMBINANT VIRAL
NUCLEIC ACID AND METHODS OF MAKING AND
USING SAME

(iii) NUMBER OF SEQUENCES: 23

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: LAHIVE & COCKFIELD

(B) STREET: 28 STATE STREET

(C) CITY: BOSTON

(D) STATE: MASSACHUSETTS

(E) COUNTRY: USA

(F) ZIP: 02109

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: ASCII

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/756,551

(B) FILING DATE: 08-JAN-2001

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/376,184

(B) FILING DATE: 17-AUG-1999

(C) CLASSIFICATION:

(viii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/987,867

(B) FILING DATE: 09-DEC-1997

(C) CLASSIFICATION:

(ix) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/389,459

(B) FILING DATE: 15-FEB-1995

(x) PRIOR APPLICATION DATA:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
TIME: 08:35:18

INPUT SET: S36649.raw

47 (A) APPLICATION NUMBER: 08/087,009
48 (B) FILING DATE: 01-JUL-1993
49
50 (xi) ATTORNEY/AGENT INFORMATION:
51 (A) NAME: Lauro, Peter C.
52 (B) REGISTRATION NUMBER: 32,360
53 (C) REFERENCE/DOCKET NUMBER: UAI-004CPDV2CN
54
55 (xii) TELECOMMUNICATION INFORMATION:
56 (A) TELEPHONE: (617) 227-7400
57 (B) TELEFAX: (617) 742-4214
58
59
60 (2) INFORMATION FOR SEQ ID NO:1:
61
62 (i) SEQUENCE CHARACTERISTICS:
63 (A) LENGTH: 14 base pairs
64 (B) TYPE: nucleic acid
65 (C) STRANDEDNESS: single
66 (D) TOPOLOGY: linear
67
68 (ii) MOLECULE TYPE: cDNA
69
70
71
72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
73
74 TATTAGTAGA TCTG 14
75
76 (2) INFORMATION FOR SEQ ID NO:2:
77
78 (i) SEQUENCE CHARACTERISTICS:
79 (A) LENGTH: 14 base pairs
80 (B) TYPE: nucleic acid
81 (C) STRANDEDNESS: single
82 (D) TOPOLOGY: linear
83
84 (ii) MOLECULE TYPE: cDNA
85
86
87
88 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
89
90 TACAGATGTA CTAA 14
91
92 (2) INFORMATION FOR SEQ ID NO:3:
93
94 (i) SEQUENCE CHARACTERISTICS:
95 (A) LENGTH: 845 base pairs
96 (B) TYPE: nucleic acid
97 (C) STRANDEDNESS: single
98 (D) TOPOLOGY: linear
99

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
TIME: 08:35:18

INPUT SET: S36649.raw

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:
(A) NAME/KEY: CDS
(B) LOCATION: 20..845

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

110	ACACAGCAAT CAGGTCAGC CAA AAT TAC CCT ATA GTG CAG AAC ATC CAG GGG	52
111	Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly	
112	1 5 10	
113		
114	CAA ATG GTA CAT CAG GCC ATA TCA CCT AGA ACT TTA AAT GCA TGG GTA	100
115	Gln Met Val His Gln Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val	
116	15 20 25	
117		
118	AAA GTA GTA GAA GAG AAG GCT TTC AGC CCA GAA GTG ATA CCC ATG TTT	148
119	Lys Val Val Glu Glu Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe	
120	30 35 40	
121		
122	TCA GCA TTA TCA GAA GGA GCC ACC CCA CAA GAT TTA AAC ACC ATG CTA	196
123	Ser Ala Leu Ser Glu Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu	
124	45 50 55	
125		
126	AAC ACA GTG GGG GGA CAT CAA GCA GCC ATG CAA ATG TTA AAA GAG ACC	244
127	Asn Thr Val Gly Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr	
128	60 65 70 75	
129		
130	ATC AAT GAG GAA GCT GCA GAA TGG GAT AGA GTG CAT CCA GTG CAT GCA	292
131	Ile Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala	
132	80 85 90	
133		
134	GGG CCT ATT GCA CCA GGC CAG ATG AGA GAA CCA AGG GGA AGT GAC ATA	340
135	Gly Pro Ile Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile	
136	95 100 105	
137		
138	GCA GGA ACT ACT AGT ACC CTT CAG GAA CAA ATA GGA TGG ATG ACA AAT	388
139	Ala Gly Thr Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn	
140	110 115 120	
141		
142	AAT CCA CCT ATC CCA GTA GGA GAA ATT TAT AAA AGA TGG ATA ATC CTG	436
143	Asn Pro Pro Ile Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu	
144	125 130 135	
145		
146	GGA TTA AAT AAA ATA GTA AGA ATG TAT AGC CCT ACC AGC ATT CTG GAC	484
147	Gly Leu Asn Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp	
148	140 145 150 155	
149		
150	ATA AGA CAA GGA CCA AAG GAA CCC TTT AGA GAC TAT GTA GAC CGG TTC	532
151	Ile Arg Gln Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe	
152	160 165 170	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001

TIME: 08:35:19

INPUT SET: S36649.raw

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153
154 TAT AAA ACT CTA AGA GCC GAG CAA GCT TCA CAG GAG GTA AAA AAT TGG      580
155 Tyr Lys Thr Leu Arg Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp
156           175           180           185
157
158 ATG ACA GAA ACC TTG TTG GTC CAA AAT GCG AAC CCA GAT TGT AAG ACT      628
159 Met Thr Glu Thr Leu Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr
160           190           195           200
161
162 ATT TTA AAA GCA TTG GGA CCA GCG GCT ACA CTA GAA GAA ATG ATG ACA      676
163 Ile Leu Lys Ala Leu Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr
164           205           210           215
165
166 GCA TGT CAG GGA GTA GGA GGA CCC GGC CAT AAG GCA AGA GTT TTG GCT      724
167 Ala Cys Gln Gly Val Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala
168 220           225           230           235
169
170 GAA GCA ATG AGC CAA GTA ACA AAT TCA GCT ACC ATA ATG ATG CAG AGA      772
171 Glu Ala Met Ser Gln Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg
172           240           245           250
173
174 GGC AAT TTT AGG AAC CAA AGA AAG ATT GTT AAG TGT TTC AAT TGT GGC      820
175 Gly Asn Phe Arg Asn Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly
176           255           260           265
177
178 AAA GAA GGG CAC ACA GCC AGA AAG T      845
179 Lys Glu Gly His Thr Ala Arg Lys
180           270           275
181
182
183 (2) INFORMATION FOR SEQ ID NO:4:
184
185 (i) SEQUENCE CHARACTERISTICS:
186 (A) LENGTH: 275 amino acids
187 (B) TYPE: amino acid
188 (D) TOPOLOGY: linear
189
190 (ii) MOLECULE TYPE: protein
191
192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
193
194 Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly Gln Met Val His Gln
195 1           5           10           15
196
197 Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val Glu Glu
198           20           25           30
199
200 Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser Glu
201           35           40           45
202
203 Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly
204           50           55           60
205

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
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206 His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala
207 65 70 75 80
208
209 Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly Pro Ile Ala Pro
210 85 90 95
211
212 Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser
213 100 105 110
214
215 Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro Ile Pro
216 115 120 125
217
218 Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile
219 130 135 140
220
221 Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln Gly Pro
222 145 150 155 160
223
224 Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg
225 165 170 175
226
227 Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr Leu
228 180 185 190
229
230 Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala Leu
231 195 200 205
232
233 Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly Val
234 210 215 220
235
236 Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala Glu Ala Met Ser Gln
237 225 230 235 240
238
239 Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg Gly Asn Phe Arg Asn
240 245 250 255
241
242 Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly Lys Glu Gly His Thr
243 260 265 270
244
245 Ala Arg Lys
246 275
247

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(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 948 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
TIME: 08:35:20

INPUT SET: S36649.raw

Line

Error

Original Text

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
TIME: 08:28:16

INPUT SET: S36649.raw

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Information Section and up to the first 5 pages.

SEQUENCE LISTING

Does Not Comply
Corrected Diskette Needed

(1) General Information:

(i) APPLICANTS: C. Morrow et al.

(ii) TITLE OF INVENTION: ENCAPSIDATED RECOMBINANT VIRAL
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(D) SOFTWARE: ASCII

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(B) FILING DATE: 08-JAN-2001
(C) CLASSIFICATION:

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(A) APPLICATION NUMBER: 08/376,184
(B) FILING DATE: 17-AUG-1999
(C) CLASSIFICATION:

(viii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/987,867
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(ix) PRIOR APPLICATION DATA:

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(B) FILING DATE: 15-FEB-1995

(x) PRIOR APPLICATION DATA:

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PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
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47 (A) APPLICATION NUMBER: 08/087,009
48 (B) FILING DATE: 01-JUL-1993
49
50 (xi) ATTORNEY/AGENT INFORMATION:
51 (A) NAME: Lauro, Peter C.
52 (B) REGISTRATION NUMBER: 32,360
53 (C) REFERENCE/DOCKET NUMBER: UAI-004CPDV2CN
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55 (xii) TELECOMMUNICATION INFORMATION:
56 (A) TELEPHONE: (617) 227-7400
57 (B) TELEFAX: (617) 742-4214
58
59
60 (2) INFORMATION FOR SEQ ID NO:1:
61
62 (i) SEQUENCE CHARACTERISTICS:
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65 (C) STRANDEDNESS: single
66 (D) TOPOLOGY: linear
67
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71
72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
73
74 TATTAGTAGA TCTG 14
75
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77
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79 (A) LENGTH: 14 base pairs
80 (B) TYPE: nucleic acid
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84 (ii) MOLECULE TYPE: cDNA
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87
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89
90 TACAGATGTA CTAA 14
91
92 (2) INFORMATION FOR SEQ ID NO:3:
93
94 (i) SEQUENCE CHARACTERISTICS:
95 (A) LENGTH: 845 base pairs
96 (B) TYPE: nucleic acid
97 (C) STRANDEDNESS: single
98 (D) TOPOLOGY: linear
99

RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
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INPUT SET: S36649.raw

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100      (ii) MOLECULE TYPE: cDNA
101
102
103      (ix) FEATURE:
104          (A) NAME/KEY: CDS
105          (B) LOCATION: 20..845
106
107
108      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
109
110      ACACAGCAAT CAGGTCAGC CAA AAT TAC CCT ATA GTG CAG AAC ATC CAG GGG   52
111          Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly
112              1             5             10
113
114      CAA ATG GTA CAT CAG GCC ATA TCA CCT AGA ACT TTA AAT GCA TGG GTA   100
115      Gln Met Val His Gln Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val
116              15             20             25
117
118      AAA GTA GTA GAA GAG AAG GCT TTC AGC CCA GAA GTG ATA CCC ATG TTT   148
119      Lys Val Val Glu Glu Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe
120              30             35             40
121
122      TCA GCA TTA TCA GAA GGA GCC ACC CCA CAA GAT TTA AAC ACC ATG CTA   196
123      Ser Ala Leu Ser Glu Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu
124              45             50             55
125
126      AAC ACA GTG GGG GGA CAT CAA GCA GCC ATG CAA ATG TTA AAA GAG ACC   244
127      Asn Thr Val Gly Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr
128              60             65             70             75
129
130      ATC AAT GAG GAA GCT GCA GAA TGG GAT AGA GTG CAT CCA GTG CAT GCA   292
131      Ile Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala
132              80             85             90
133
134      GGG CCT ATT GCA CCA GGC CAG ATG AGA GAA CCA AGG GGA AGT GAC ATA   340
135      Gly Pro Ile Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile
136              95             100            105
137
138      GCA GGA ACT ACT AGT ACC CTT CAG GAA CAA ATA GGA TGG ATG ACA AAT   388
139      Ala Gly Thr Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn
140              110            115            120
141
142      AAT CCA CCT ATC CCA GTA GGA GAA ATT TAT AAA AGA TGG ATA ATC CTG   436
143      Asn Pro Pro Ile Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu
144              125            130            135
145
146      GGA TTA AAT AAA ATA GTA AGA ATG TAT AGC CCT ACC AGC ATT CTG GAC   484
147      Gly Leu Asn Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp
148              140            145            150            155
149
150      ATA AGA CAA GGA CCA AAG GAA CCC TTT AGA GAC TAT GTA GAC CGG TTC   532
151      Ile Arg Gln Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe
152              160            165            170

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
TIME: 08:28:17

INPUT SET: S36649.raw

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153
154 TAT AAA ACT CTA AGA GCC GAG CAA GCT TCA CAG GAG GTA AAA AAT TGG      580
155 Tyr Lys Thr Leu Arg Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp
156           175           180           185
157
158 ATG ACA GAA ACC TTG TTG GTC CAA AAT GCG AAC CCA GAT TGT AAG ACT      628
159 Met Thr Glu Thr Leu Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr
160           190           195           200
161
162 ATT TTA AAA GCA TTG GGA CCA GCG GCT ACA CTA GAA GAA ATG ATG ACA      676
163 Ile Leu Lys Ala Leu Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr
164           205           210           215
165
166 GCA TGT CAG GGA GTA GGA GGA CCC GGC CAT AAG GCA AGA GTT TTG GCT      724
167 Ala Cys Gln Gly Val Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala
168 220           225           230           235
169
170 GAA GCA ATG AGC CAA GTA ACA AAT TCA GCT ACC ATA ATG ATG CAG AGA      772
171 Glu Ala Met Ser Gln Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg
172           240           245           250
173
174 GGC AAT TTT AGG AAC CAA AGA AAG ATT GTT AAG TGT TTC AAT TGT GGC      820
175 Gly Asn Phe Arg Asn Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly
176           255           260           265
177
178 AAA GAA GGG CAC ACA GCC AGA AAG T      845
179 Lys Glu Gly His Thr Ala Arg Lys
180           270           275
181
182
183 (2) INFORMATION FOR SEQ ID NO:4:
184
185 (i) SEQUENCE CHARACTERISTICS:
186 (A) LENGTH: 275 amino acids
187 (B) TYPE: amino acid
188 (D) TOPOLOGY: linear
189
190 (ii) MOLECULE TYPE: protein
191
192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
193
194 Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly Gln Met Val His Gln
195 1           5           10           15
196
197 Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val Glu Glu
198 20           25           30
199
200 Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser Glu
201 35           40           45
202
203 Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly
204 50           55           60
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RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
TIME: 08:28:18

INPUT SET: S36649.raw

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206 His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala
207 65 70 75 80
208
209 Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly Pro Ile Ala Pro
210 85 90 95
211
212 Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser
213 100 105 110
214
215 Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro Ile Pro
216 115 120 125
217
218 Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile
219 130 135 140
220
221 Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln Gly Pro
222 145 150 155 160
223
224 Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg
225 165 170 175
226
227 Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr Leu
228 180 185 190
229
230 Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala Leu
231 195 200 205
232
233 Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly Val
234 210 215 220
235
236 Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala Glu Ala Met Ser Gln
237 225 230 235 240
238
239 Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg Gly Asn Phe Arg Asn
240 245 250 255
241
242 Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly Lys Glu Gly His Thr
243 260 265 270
244
245 Ala Arg Lys
246 275
247

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(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 948 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/756,551A

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INPUT SET: S36649.raw

Line	Error	Original Text
28	Wrong application Serial Number	(A) APPLICATION NUMBER: 08/756,551